

01408009 MINGAMAHONE BROOK NEAR EARLE, NJ

MANASQUAN RIVER BASIN

LOCATION.--Lat 40°12'45", long 74°10'06" referenced to North American Datum of 1983, Howell Township, Monmouth County, NJ, Hydrologic Unit 02040301, at bridge on Cranberry Bog Road, 0.6 mi upstream from East Branch Mingamahone Brook, and 1.7 mi west of Earle.

DRAINAGE AREA.--3.32 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Date	Discharge, in ft ³ /s
Nov 8, 2007	3.21
Mar 5, 2008	7.88
May 12, 2008	9.47
Aug 20, 2008	1.42

01408009 MINGAMAHONE BROOK NEAR EARLE, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1971-74, 1998 to current year.

REMARKS.--Cooperative Network Site Descriptor: Undeveloped Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 12.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory. Analysis of the split and concurrent replicate samples was performed by the Laboratory Branch of the U.S. EPA, Region II, Division of Environmental Science and Assessment.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 4

[QC, quality control sample. Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	Sample medium and type	Instantaneous discharge, ft ³ /s (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)
Nov									
08...	1010	Surface water, regular	3.2	11	.365	.318	765	11.7	95
Mar									
05...	1030	Surface water, replicate	7.8	20	.048	.037	751	9.2	81
05...	1030	<i>QC - Surface water, split replicate</i>	--	--	--	--	--	--	--
05...	1031	<i>QC - Surface water, concurrent replicate</i>	--	--	--	--	--	--	--
May									
12...	1130	Surface water, regular	9.5	45	.212	.172	747	8.7	78
Aug									
20...	1120	Surface water, regular	1.4	45	.213	.186	765	8.0	81

01408009 MINGAMAHONE BROOK NEAR EARLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 4

[QC, quality control sample. Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (00955)
Nov 08...	6.9	140	4.5	6.7	37	12.0	1.69	1.67	6.67	19	13.9	E.07	15.8
Mar 05...	6.1	112	14.0	9.8	25	7.30	1.59	1.83	7.50	E5	14.1	E.07	12.8
05...	--	--	--	--	24	7.20	1.50	1.70	7.20	3	15.0	.08	--
05...	--	--	--	--	24	7.20	1.50	1.60	7.20	3	15.0	.08	--
May 12...	6.1	114	8.0	10.6	24	7.02	1.47	1.89	7.99	7	14.8	<.12	12.3
Aug 20...	6.7	155	22.0	15.8	53	18.8	1.55	2.08	5.02	34	11.9	E.08	20.4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 4

[QC, quality control sample. Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non- filter- able, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)
Nov 08...	18.6	E82	106	28	.22	--	.018	<.04	.05	--	--	E.007	.010
Mar 05...	21.2	E70	79	20	E.11	--	.016	.08	.14	E.19	E.33	<.010	<.008
05...	22.0	57	91	E20	<.10	E.21	<.050	.066	--	--	E.28	<.050	<.050
05...	22.0	56	81	E19	<.10	E.24	<.050	.065	--	--	E.30	<.050	<.050
May 12...	18.1	E68	82	82	.16	--	.028	.04	.43	.20	.63	E.006	<.008
Aug 20...	19.6	E100	113	20	E.12	--	.064	E.02	.09	E.15	E.24	E.004	<.008

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 4

[QC, quality control sample. Remark codes: <, less than; E, estimated;
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Date	Phos- phorus, water, unfltrd mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Boron, water, fltrd, µg/L (01020)
Nov						
08...	.046	1.2	M	1.2	2.7	19
Mar						
05...	.046	3.0	<.04	3.0	1.7	18
05...	.051	--	--	--	1.6	13
05...	.057	--	--	--	2.6	13
May						
12...	.113	8.1	E.1	8.0	3.4	18
Aug						
20...	.062	1.3	<.04	1.3	2.2	20